



MATERIAL SAFETY DATA SHEET

214

MANUFACTURER: Owens-Corning Fiberglas Corporation

ADDRESS: Fiberglas Tower, Toledo, OH 43659

*Insulation*

PHONE: For information purposes 8:00 AM - 5:00 PM Eastern Time

Telephone: (419) 248-8234

FOR EMERGENCY: After 5:00 PM Eastern Time

Telephone: (419) 248-5330

DATE OF PREPARATION: September 30, 1985

PRODUCT NAME(s): DOES NOT INCLUDE Molding Media

Fiberglas® Insulation, Kraft Faced Insulation, Foil Faced Insulation, Blowing Wool, ThermaCube® Insulation, Type M Plus, Aerocor® Insulation, Appliance Insulation, ASJ Pipe Covering, Pipe Wrap, 700 Series Industrial Insulation, Navy Board, Hull Board, Marine Insulation, Ceiling Panels, 475 FRK Duct Board, Aeroflex® Duct Liner, Duct Wrap, Molded Pipe, Sill Sealer, Mobile Home Insulation, Warm-N-Dri™ Insulation, CW225 Insulation, Flame Spread 25 Insulation, Sonobatts, Commercial Use Board, Noise Barrier Batts, Roof Insulation

SECTION I - COMPONENT DATA

HAZARDOUS INGREDIENTS

<u>COMMON NAME</u>	<u>CHEMICAL NAME</u>	<u>C.A.S. NUMBER</u>
Fiberglass	Fibrous Glass	65997-17-3

SECTION II - PHYSICAL DATA

BOILING POINT (°F): NA\*

SPECIFIC GRAVITY (H<sub>2</sub>O=1): ND

MELTING POINT: NA

VAPOR PRESSURE (mmHg @ 20°C): NA

PERCENT VOLATILE BY VOLUME: NA

VAPOR DENSITY (AIR=1): NA

EVAPORATIVE RATE (ETHYL ETHER=1): NA

\*NA = Not Applicable

\*\*Not Determined

SOLUBILITY IN WATER: Insoluble

pH: NA

APPEARANCE AND ODOR: Pink, yellow, tan or black insulation/may have faint resin odor. Some products have a vinyl, kraft paper, foil or polypropylene facing.

### SECTION III - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F): NA

METHOD USED: NA

FLAMMABILITY LIMITS:

LEL: NA

UEL: NA

AUTO-IGNITION TEMPERATURE (°F): NA

EXTINGUISHING MEDIA: Water, Foam, Dry Chemical

SPECIAL FIRE-FIGHTING INSTRUCTIONS:

None required.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

The facing on kraft paper and foil faced products will burn and should not be left exposed. Special care should be taken when working close to the facing with an open flame. Vinyl faced products in fire conditions may give off hydrogen chloride, a highly irritating and toxic gas. Evacuate the building immediately.

### SECTION IV - REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID):

Stable (none)

INCOMPATIBILITY (MATERIALS TO AVOID):

None

HAZARDOUS DECOMPOSITION PRODUCTS:

Facing and binder burns or decomposes in a fire-primary combustion products are carbon monoxide, carbon dioxide and water. Vinyl faced products, hazardous decomposition products will emit hydrogen chloride in a fire. Emission of HCl begins at 525°F with faster emission as the temperature rises.

HAZARDOUS POLYMERIZATION:

Will not occur.

## SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Inhalation

HEALTH HAZARDS (ACUTE AND CHRONIC)

### INHALATION:

Acute: Mechanical irritation of the mouth, nose and throat.

Chronic: Many studies have been conducted to determine the potential long term effects of fibrous glass inhalation. In man, epidemiology studies of workers employed for up to 40 years in fibrous glass manufacturing do not show any consistent evidence of pulmonary disease, either malignant or nonmalignant. Studies in animals using the natural route of exposure - i.e., inhalation - have not shown evidence of a carcinogenic effect. Artificial implantation of large quantities of very fine glass fibers in the chest or abdominal cavities of laboratory animals has caused cancer. One animal study, in which large quantities of very fine diameter glass fibers were injected into the trachea of hamsters, reported cancer.

### SKIN CONTACT:

Acute: Transient mechanical irritation.

Chronic: None

### EYE CONTACT:

Acute: Direct contact will cause mechanical irritation.

Chronic: None

### INGESTION:

Acute: Unlikely to occur. Observe individual; if symptoms develop, consult physician.

Chronic: None known

### SIGNS AND SYMPTOMS OF EXPOSURE:

Itching and possible irritation of upper respiratory tract.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Any condition generally aggravated by mechanical irritants in air or on skin.

### EXPOSURE LIMITS:

<u>HAZARDOUS INGREDIENTS</u>	<u>OSHA PEL (mg/M<sup>3</sup>)</u>	<u>ACGIH TLV (mg/M<sup>3</sup>)</u>	<u>OTHER RECOMMENDED (SOURCE)</u>
Fibrous Glass	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>	3 x 10 <sup>6</sup> fibers/M <sup>3</sup> (NIOSH)

1

2

3

4

5

CARCINOGENICITY:

<u>HAZARDOUS INGREDIENTS</u>	<u>NTP LISTED</u>	<u>IARC LISTED</u>	<u>OSHA REGULATED</u>
Fibrous Glass	No	No	No

SECTION VI - EMERGENCY & FIRST - AID PROCEDURES

INHALATION:

Vinyl faced products in fire conditions - administer oxygen; consult physician immediately.

SKIN:

Wash with soap and running water.

EYES:

Flush with running water for at least 15 minutes.

SECTION VII - SPECIAL HANDLING INFORMATION

VENTILATION:

Ambient

RESPIRATORY PROTECTION:

Not normally required. If TLV is exceeded or irritation occurs use a respirator such as 3M model 8710 or equivalent for protection against nuisance dust.

PROTECTIVE CLOTHING:

Gloves, long sleeved, loose fitting clothing, long pants. A cap may be useful when handling material overhead.

EYE PROTECTION: Safety glasses

WORK/HYGIENIC PRACTICES:

Shower at end of work day. Wash work clothes separately and wipe out washer at end of cycle.

SECTION VIII - SPILL, LEAK & DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS (USE APPROPRIATE SAFETY EQUIPMENT):

NA

WASTE DISPOSAL METHOD:

Dispose in accordance with federal, state and local regulations. The primary method of disposal is in a municipal or industrial landfill.

EPA HAZARDOUS WASTE NUMBER: NA

This material is not regulated under the "RCRA" hazardous waste regulations.

SECTION IX - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Insulation should be stored in a dry place. Faced material should be stored well away from sources of ignition.

DOT INFORMATION

HAZARDOUS MATERIAL PROPER SHIPPING NAME:

Not regulated by DOT.

HAZARD CLASS:

Nonhazardous

UN IDENTIFICATION NUMBER:

ADDITIONAL INFORMATION:

None.



## MATERIAL SAFETY DATA SHEET

MANUFACTURER: Owens-Corning Fiberglas Corporation

ADDRESS: Fiberglas Tower, Toledo, OH 43659

PHONE: For information purposes 8:00 AM - 5:00 PM Eastern Time

Telephone: (419) 248-8234

FOR EMERGENCY: After 5:00 PM Eastern Time

Telephone: (419) 248-5330

DATE OF PREPARATION: September 30, 1985

PRODUCT NAME(s): Kaylo 10™ AF Insulation

### SECTION I - COMPONENT DATA

#### HAZARDOUS INGREDIENTS

<u>COMMON NAME</u>	<u>CHEMICAL NAME</u>	<u>C.A.S. NUMBER</u>
Wollastonite	Calcium Silicate	13983-17-0

### SECTION II - PHYSICAL DATA

BOILING POINT (°F): NA

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 2.9

MELTING POINT: 2192°F

VAPOR PRESSURE (mmHg @ 20°C): NA

PERCENT VOLATILE BY VOLUME: NA

VAPOR DENSITY (AIR=1): NA

EVAPORATIVE RATE (ETHYL ETHER=1): NA

SOLUBILITY IN WATER: Insoluble

pH: NA

APPEARANCE AND ODOR: White to off white solid/odorless.

### SECTION III - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F): NA

METHOD USED: NA

FLAMMABILITY LIMITS: NA

LEL: NA

UEL: NA

\*NA = Not Applicable

\*\*ND = Not Determined

AUTO-IGNITION TEMPERATURE (°F): NA

EXTINGUISHING MEDIA: NA

SPECIAL FIRE-FIGHTING INSTRUCTIONS: NA

Material does not burn.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

#### SECTION IV - REACTIVITY DATA

STABILITY (CONDITIONS TO AVOID):

None

INCOMPATIBILITY (MATERIALS TO AVOID):

None

HAZARDOUS DECOMPOSITION PRODUCTS:

None known.

HAZARDOUS POLYMERIZATION:

Will not occur.

#### SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Inhalation

HEALTH HAZARDS (ACUTE AND CHRONIC)

##### INHALATION:

Acute: Mechanical irritation of the mouth, nose and throat.  
Chronic: None known.

##### SKIN CONTACT:

Acute: Transient mechanical irritation.  
Chronic: None known.

##### EYE CONTACT:

Acute: Direct contact will cause mechanical irritation.  
Chronic: None known.

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin, eye, respiratory tract irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Any condition generally aggravated by mechanical irritants in air or on skin.

EXPOSURE LIMITS:

<u>HAZARDOUS INGREDIENTS</u>	<u>OSHA PEL (mg/M<sup>3</sup>)</u>	<u>ACGIH TLV (mg/M<sup>3</sup>)</u>	<u>OTHER RECOMMENDED (SOURCE)</u>
Calcium Silicate (as nuisance dust)	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>	None Known

CARCINOGENICITY:

<u>HAZARDOUS INGREDIENTS</u>	<u>NTP LISTED</u>	<u>IARC LISTED</u>	<u>OSHA REGULATED</u>
Calcium Silicate	No	No	No

SECTION VI - EMERGENCY & FIRST - AID PROCEDURES

INHALATION:

None required.

SKIN:

Wash with soap and running water.

EYES:

Flush with running water for at least 15 minutes.

SECTION VII - SPECIAL HANDLING INFORMATION

VENTILATION:

Mechanical general.

RESPIRATORY PROTECTION:

Not normally required. If TLV is exceeded or irritation occurs, use a respirator such as 3M model 8710 or equivalent for protection against nuisance dusts.

PROTECTIVE CLOTHING:

Gloves, long sleeved clothing, long pants.

EYE PROTECTION:

Safety glasses.

*See CEB Mech Maint off Const Grounds off Bldg*  
WORK/HYGIENIC PRACTICES:

No special practices necessary.

SECTION VIII - SPILL, LEAK & DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS (USE APPROPRIATE SAFETY EQUIPMENT):

NA

WASTE DISPOSAL METHOD:

Dispose in accordance with federal, state and local regulations. The primary method of disposal is in a municipal or industrial landfill.

EPA HAZARDOUS WASTE NUMBER: NA

This material is not regulated under the "RCRA" hazardous waste regulations.

SECTION IX - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

No special handling procedures required.

DOT INFORMATION

HAZARDOUS MATERIAL PROPER SHIPPING NAME:

NA

HAZARD CLASS:

Nonhazardous

UN IDENTIFICATION NUMBER:

NA

ADDITIONAL INFORMATION:

None.